

# QX620

Industrial 5G Router

5 Eth + 2 SIM + 1 RS232/485

## INTRODUCTION

QX620 series industrial 5G router designed for Internet of Things (IoT) and Machine to Machine(M2M) applications, support 5G/4G cellular network, Dual bands WiFi (2.4G&5.8G), Routing, Qos, Network Management, VPN, Firewall and Security technology.

QX620 platform equipped with high-performance industrial dual core Communications Processor, 5 Gigabit Ethernet ports, dedicated serial port(RS232/RS485), Wi-Fi interface, embedded LEDE Linux Operating System. It provides safe, high-speed, stable 5G/4G network connection for Driverless technology/Artificial Intelligence, Smart City, Intelligent Robot, Live Stream, Intelligent Medical, Intelligent Manufacturing, Intelligent Agriculture, Industrial Automation, Security Monitoring, Telco infrastructure, etc.



## KEY FEATURES

### Industrial-grade Design

- High-performance industrial grade 5G module
- Support low-consumption mode, including sleep mode, scheduled online/offline mode
- Aluminum alloy housing, excellent heat dissipation
- Desktop or Wall mount, Protection degree IP41(Max IP51)
- Wide voltage:7.5V~32V DC(Max36V)

### Stable and Reliable

- Hardware and Software WDT and multi-link detection make it self-recovery from unexpected failure and guarantee reliable communication
- ESD protection, avoid Static Electricity Shock
- LED indicators display the status of Wireless network signal

### Network Characteristics

- Port flux detection

- Link real-time monitoring
- Support APN and VPDN private network access
- Multiple VPN client modes: PPTP, L2TP, IPSec, OPENVPN, N2N, GRE, EoIP
- Serial port offer Data Transfer Unit(DTU) function and support Serial transparent transmission, Modbus RTU, Modbus TCP protocols
- Support QOS, UPnP protocol
- Port forwarding
- UDP broadcast relay

### Function Characteristics

- Full bands support 5G, compatible with 4G LTE. Auto switch to network
- Failover, Backup and Load balance between WAN, WiFi and Cellular network
- Various interface: 1xWAN+4xLAN or 5xLAN (Gigabit Ethernet ports), RS232/485 serial port
- Wi-Fi radios, support IEEE802.11b/g/n/a/ac, dual WiFi bands 2.4G&5.8G

- Always keep online, reboot automatically if disconnected to ensure continual connection
- Support SNMP management protocol
- Support DHCP, Firewall, NAT, and DMZ host
- Support ICMP, TCP, UDP, Telnet, SSH, FTP, HTTP, HTTPS protocol
- Support standard industrial grade SIM/UIM card
- Support scheduled reboot
- Web UI management, easy configuration and deployment

### Cloud-Based Platform Management

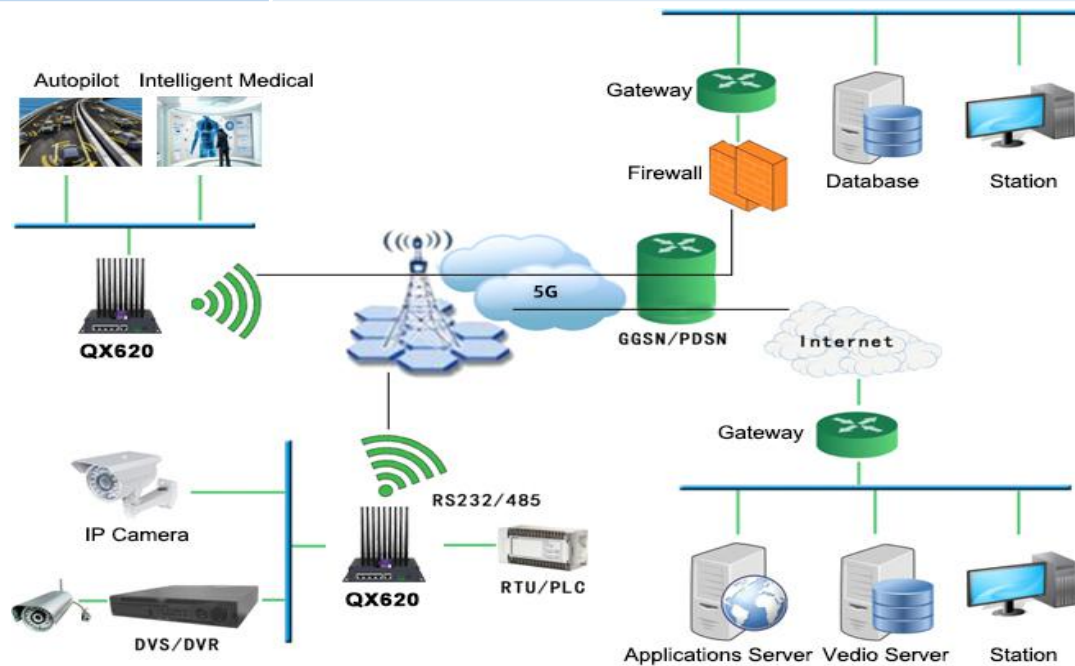
- Remote parameter configuration
- Remote parameter backup
- Remote reboot and log query
- Remote device upgrades
- On-line monitoring

### Extensions

- Support GPS/Beidou positioning (Optional)
- WiFi advertising (Optional)
- Flash storage extension, 16MB to 64MB

## APPLICATION

<b>Retail</b>	ATM, POS(Point-of-Sale), Vending Machine, Lottery Machine, Branch network, Digital Signage
<b>Transportation</b>	Wi-Fi on Board(Bus, Yacht, Train), Vehicle video surveillance, Fleet tracking, Bus Advertising
<b>Energy</b>	Digital Oil Field, Coal Mine, Solar, Smart Grid
<b>Smart City</b>	Charging station, Water conservancy, Traffic, Street lighting, Security monitoring equipment, Guest and employee Wi-Fi, Environment monitoring, Video Surveillance, Smart Parcel Locker, Building and process automation controllers, IP cameras and access controllers
<b>Industry &amp; Enterprise</b>	Telco infrastructure controllers, Automation controllers, Remote PLC, Remote AMR, Remote Monitoring and control, Remote data loggers, flow meters and sensing equipment (Telemetry, Tanking, Fire alarm, Meteorological monitoring), remote offices



## SPECIFICATION

<b>Cellular</b>	
Frequency Bands	5G: NR (N41/N77/N78/N79) 4G: FDD-LTE ( B1/B3/B5/B7/B8/B20/B28 ) TDD-LTE ( B34/B38/B39/B40/B41 ) <b>Frequency Bands can be customized for different country</b>
Theoretical Bandwidth	5G Sub-6G: 300Mbps/4Gbps LTE CAT20: 150Mbps/2.4Gbps
<b>Wi-Fi</b>	
Standard	IEEE802.11b/g/n/a/ac, 2.4Ghz 2*2MIMO max up to 300Mbps 5.8Ghz 2*2MIMO max up to 4.8Gbps
Security	WEP, WPA, WPA2, etc
Users	64
<b>Interface</b>	
LAN	4× Gigabit Ethernet interface(RJ45), Auto MDI/MDIX, built-in ESD
WAN	1× Gigabit Ethernet interface(RJ45), Auto MDI/MDIX, built-in ESD, WAN can converted LAN
Serial Port	1×RS232(optional RS485)port
LED Indicators	With "PWR", 4×" LAN", "WAN", "WiFi", 2×"SIM" indicator lamps

Antenna Interface	4 standard SMA cellular antenna interface (4G/5G), 2×2.4G WiFi antenna interface, 2×5.8G WiFi antenna interface, 1× AUX/GPS antenna interface
SIM/UIM slot	2× SIM/UIM card slot, mounting plate to protect falling. 1.8V/3V automatic detection
Power Input	7.5V-32V(standard DC12V/1A), built-in power transient overvoltage protection
Reset Button	Reset configuration parameter to default values
<b>Power Supply</b>	
Standard power	DC 12V/1.5A
<b>Physic</b>	
CPU	800MHz dual core
Flash/RAM	16MB (64MB optional)/256MB
Shell	Aluminum alloy shell
Dimension	152×100×25mm
Weigh	About 410g
<b>Environmental</b>	
Operating Temperature	-30 to 70°C
Storage Temperature	-40 to 85°C
Relative Humidity	< 95% no coagulation

## ORDERING INFORMATION (Model: QX620)

Mode	Serial Port	WiFi	GPS
QX620-2	RS232		
QX620-4	RS485		
QX620-W2	RS232	√	
QX620-W4	RS485	√	
QX620-G2	RS232		√
QX620-G4	RS485		√
QX620-WG2	RS232	√	√
QX620-WG4	RS485	√	√